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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,777	12/10/2001	Ameel M. Kamboh	2204/B10	3363

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McGUINNESS & MANARAS LLP
125 NAGOG PARK
ACTON, MA 01720

EXAMINER

SWEARINGEN, JEFFREY R

ART UNIT PAPER NUMBER

2145

DATE MAILED: 11/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/016,777

Applicant(s)

KAMBOH ET AL.

Examiner

Jeffrey R. Swearingen

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Simons et al. (US 7,023,845 B1).

4. In regard to claims 1, 9-10 and 14, Simons disclosed:

at least one interface for receiving and transmitting data packets; [column 12, lines 41-67]

a set of routing processors coupled to the at least one interface, including a first routing processor exclusively associated with a first routing protocol for determining a set of routes, and a second routing processor exclusively associated with a second routing protocol for determining a set of routes; [column 16, lines 50-61. Simons contained multiple mid-plane line cards associated with individual protocols. The line cards were assigned to ports.] and

a routing table manager coupled to the set of routing processors, for maintaining a forwarding table of routes provided by the set of routing processors. [column 17, lines 18-46]

The limitations of claims 9 and 10 are both embodied in the limitations of claim 1.

5. In regard to claims 2 and 15, Simons disclosed:

Art Unit: 2145

a set of fast forward engines coupled to the at least one interface and the routing table manager for forwarding a data packet based on the forwarding table. [column 48, lines 26-29]

6. In regard to claims 3, 13 and 16, Simons disclosed:

the routing table manager is exclusively associated with a third processor. [The routing table manager in column 14 is the configuration database. The configuration database is on the main backplane, and is separate from the individual line cards. It is exclusively associated with the backplane, or a *third processor*.]

7. In regard to claims 4, 11 and 19, Simons disclosed:

each routing processor includes memory. [It is inherent that a processor includes memory in Simons. A line card (processor) would not be able to function if it did not contain memory to handle the data received by the line card.]

8. In regard to claims 5 and 12, Simons disclosed:

a memory that includes RAM, cache memory and queue memory. [Inherent to the operation of a line card. A line card included a processor, which needed RAM and cache memory in order to function. The line card received and output packets, which required a queue memory to manage the ordering of packet receipt, processing, and dispatch without dropping packets.]

9. In regard to claim 6, Simons disclosed:

the routing table manager processor includes memory in which the forwarding table may be stored. [The configuration database in column 14 is stored in order to function. It is inherently stored in memory if it is accessed by a line card and processed.]

10. In regard to claims 7 and 17, Simons disclosed:

a control data module coupled to the at least one interface for receiving and processing control data messages from a control data bus; [column 12, line 15 taught a Master Control Driver that learned and configured the line cards added to the router.] *and*

Art Unit: 2145

a routing data module coupled to the at least one interface and the set of routing processors for receiving and processing data messages from a routing data bus. [The configuration database of columns 12-14.]

11. In regard to claims 8 and 18, Simons disclosed:

the control data module and the routing data module are implemented on the same processor. [The Master Control Driver and the configuration database are maintained on the main backbone of the router, and are used to configure the line cards. They are therefore implemented on the same processor.]

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Simons et al. US 6,332,198 B1

Brandt et al. US 6,976,149 B1

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. Swearingen whose telephone number is (571) 272-3921. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on 571-272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/016,777

Art Unit: 2145

Page 5

A handwritten signature in black ink, appearing to read 'J. Cardone', is positioned above the printed name and title.

Jason Cardone
Supervisory Patent Examiner
Art Unit 2145